

t20_xxreal_3 (TMPwPXCcJK-
sPZG8mat38uwDRXtTLFXh3cjz)

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Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $k1_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\neg k1_xxreal_0 \in k1_numbers \tag{1}$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\neg(\neg X0 \in k1_numbers) \wedge ((X0 \neq k1_xxreal_0) \wedge (X0 \neq k2_xxreal_0))) \tag{2}$$

Assume the following.

$$k1_xxreal_3 k2_xxreal_0 k2_xxreal_0 = k2_xxreal_0 \tag{3}$$

Assume the following.

$$k1_xxreal_3 k1_xxreal_0 k1_xxreal_0 = k1_xxreal_0 \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0) \wedge ((v1_xxreal_0 X1) \wedge (\neg v1_xreal_0 X1))) \Rightarrow (\neg v1_xreal_0 (k1_xxreal_3 X0 X1)) \tag{5}$$

Assume the following.

$$k1_xxreal_0 = k1_numbers \tag{6}$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Leftrightarrow (X0 \in k1_numbers) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (k1_xxreal_3 X0 X1 = k1_xxreal_3 X1 X0) \tag{8}$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\neg \\ & (\neg(X0 = k1_xxreal_0) \wedge (X1 = k2_xxreal_0)) \wedge (\neg(X0 = k2_xxreal_0) \wedge \\ & (X1 = k1_xxreal_0)) \wedge ((k1_xxreal_3 X0 X1 \in k1_numbers) \wedge (\neg(X0 \in k1_numbers) \wedge \\ & (X1 \in k1_numbers)))))) \end{aligned}$$